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10 JUN 1958

WDSP

SUBJECT: (S) Requirement for a Satellite Training Program

TO: Commander
Air Research and Development Command
Andrews Air Force Base
Washington 25, D. C.

1. Entry into the field of satellite vehicles and the era of space travel imposes entirely new and unknown operational and equipment usage problem. There is a complete dearth of operating competence nation-wide. It is timely for the Air Force to take the initiative in developing a resource of experienced personnel capable of assuming working level operational responsibility following the initial development phase by industry. The Air Force has been charged with manned space flight and must begin the realization of the necessary force-in-being.
2. Many corporations are now engaging in full scale Air Force development programs for satellite and space vehicles. Because of the complete novelty of the systems, many field operations will be planned and carried out by these contractors rather than by the Air Force in the usual way. The development period for these programs varies with initial operational dates occurring from March 1960 through December 1964, with continued refinement and sophistication thereafter. It is imperative that a nucleus of Air Force operational personnel be obtained at the earliest possible date with expansion continuing at maximized rates compatible with facility (contractor) capability and Air Force resources available. Placement of Air Force personnel within the satellite and space vehicle industries as participating team members in the industrial team will ultimately provide the Air Force with this vital operating capability. The corporations concerned would be receptive to assignment of small groups of personnel who would be utilized as if they were members of the company working side-by-side with technical and management personnel under the direction of an appropriate department head.
3. It is worth emphasizing that the objective is not to train or educate officers in the technical aspects of research and development nor in the techniques of industrial management. Rather it is

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to participate with the industrial planning and operating groups responsible under contract for establishing and managing satellite and space vehicle field organizations.

4. Such a program would encompass a nonreimbursable training-with-industry contract covering a period of from one to two years with the facility for refresher entry at subsequent dates. The grades of officer personnel involved should be First Lieutenant through Major. (In contrast, it is visualized that senior Air Force management personnel needed in major headquarters will be acquired through the Astronautics Training-with-Industry Program now in-being.) Initial inputs of personnel would vary from one to four per contractor with additional monthly increments until the maximum programmed capacity is obtained. Entry subsequent to this time would be replacements for officers completing their industrial tour. The future (controlled) assignments of such transferees would be into pertinent Air Force operating units.

5. Schedule and number of personnel inputs by contractor should be initially as follows:

<u>Contractor</u>	<u>System Title</u>	<u>Number of Officers</u>	<u>Phasing</u>
Lockheed	Satellite Opns		
	Opnl Planning	1	ASAP
	"	2	By 1 Sep 58
	Com Systems	1	ASAP
	"	1	By 1 Sep 58
Philco	Special Logistics	1	ASAP
	"	1	By 1 Sep 58
	Satellite Coms	1	ASAP
Philco	Infra-Red Grd Equip	1	By 1 Sep 58
	Satellite Guidance	1	ASAP
MIT (Instrumentation Lab)	"	1	By 1 Sep 58
	Recovery Systems	1	ASAP
General Electric	Visual Recon Systems	1	ASAP
Eastman Kodak	"	1	By 1 Sep 58
	"	1	By 1 Sep 58
Ramo-Woolbridge (Communications Div)	Data Processing	2	By 1 Sep 58
	SUB TOTALS	7	ASAP
		9	By 1 Sep 58
	ACCUMULATED TOTAL	16	

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WDSP-53-12

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The above table indicates the most urgent requirements and those which may currently be accommodated in industrial organizations. Additional corporations will be nominated and phasing of personnel recommended during follow-on planning. It is believed that the following table represents reasonable goals:

<u>Date</u>	<u>Officers in Place</u>
Jul 58	7
Sep 58	12
Jun 59	15
Sep 59	30 (tentative estimates)
Jun 60	50 (tentative estimates)

As indicated above these officers are not being trained for service within ARDC. Furthermore, in order to maintain proper contractual relationships, it would be desirable that the officers not be under the direct supervision or monitoring of AFEMD. In other words, the officers involved should in no way be the agents of AFEMD. For both these reasons, it is desired that manpower spaces be programed and the officers administered by a non-ARDC Air Force agency.

6. A recent major acceleration of the USAF satellite program WS-117L has in turn accelerated a need for the above described program to the extent that specially expedited action is required. Rather than the usual method of seeking volunteers, it is necessary for Headquarters USAF to select assignees. It is recognized that successful performance of relatively strange duty assignments will require that the individuals concerned be highly motivated. Therefore, it is recommended that any potential selectees be interrogated prior to assignment in order that actual assignments can be made on essentially a voluntary basis. This headquarters can prepare informative material so that potential assignees can be made aware of the nature of the duty assignments.

7. Recommend that the proposed program be adopted, and that a complete finalization be accomplished in coordination with AFEMD.

cc: Col Sheppard
Col Terhune

SIGNED

B. A. SCHRIEVER
Major General, USAF
Commander

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WDSP-53-12